

## CATALOGUE OF PIMPLINAE (HYMENOPTERA: ICHNEUMONIDAE) FROM PENINSULAR MALAYSIA

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**Abstract.**—A catalogue of Pimplinae (Hymenoptera: Ichneumonidae) from Peninsular Malaysia which listing 43 species under three tribes and 14 genera is presented. The genus of *Xanthopimpla* (Tribe: Pimplini), *Theronia* (Tribe: Theroniini) has the greatest number of species (21). A total of 14 species were described from Peninsular Malaysia with type specimens deposited in the U.S. National Museum of Natural History—Washington (4), British Natural History Museum—London (3), V. K. Gupta Collection (3), Berlin Museum—Germany (2), and one each in Munich—Germany and Gainesville—U.S.A.

**Key Words.**—Insecta, Ichneumonidae, Pimpline, Malaysia, Peninsular Malaysia, Malaya.

Smith (1858) in describing *Pimpla punctator* Smith from Sarawak (East Malaysia) started the systematic study of the Pimplinae from Malaysia. It was followed by Krieger (1897), Cameron (1903) and Tosquinet (1903) who also covered the West of Malaysia (Peninsular Malaysia). Since then, a number of species had been described or recorded from Malaysia (Morley 1913, Cushman 1925, Beeson & Chatterjee 1935, Townes et al. 1961, Gupta 1961, Baltazar 1961, Momoi 1966, Townes & Chiu 1970, Kamath & Gupta 1972, Gupta & Tikar 1976, Kusigemati 1985).

The present catalogue lists the tribes, genera and species of Pimplinae recorded from Peninsular Malaysia. Most of the species listed have notes about the location at which it was collected or recorded. The locations for the type specimens deposited are also indicated (capital letters). Species that have no type or lectotype specimen from Peninsular Malaysia were referred to type or lectotype specimen recorded from other countries especially from the Indo-Australian region. Note that the word 'Malaya' is also referred to 'Peninsular Malaysia' in this catalogue because Peninsular Malaysia was called 'Malaya' before its independent (1957) and during early years after independent.

Museums in which type or lectotype material is located or deposited are abbreviated as follows:

AMSTERDAM. Afdeling Entomologie, Zoologisch Museum, Universiteit van Amsterdam, Plantage Middenlaan 64, Amsterdam 1004, The Netherlands.

BERLIN. Museum für Naturkunde der Humboldt-Universität zu Berlin, Berlin, Invaliderstrasse 43, Germany.

BUDAPEST. Termeszettudományi Muzeum Allattara (Zoological Department of the Hungarian Natural History Museum), 1088 Budapest, Baross-Utca 13, Hungary.

COPENHAGEN. Zoologisk Museum, Universitetsparken 15, DK 2100 København, Denmark.

EBERSWALDE. Institut f. Pflanzenschutzforschung Kleinmachnow, Abt. Taxonomie der Insekten, DDR-13 Eberswalde-Finow 1, Schickler-strasse 5, DDR Germany.

GAINESVILLE. American Entomological Institute, 3005 S. W. 56th Avenue, Gainesville, Florida 32608, U.S.A.

GLASGOW. University Museum, University of Glasgow, Glasgow, Scotland, U.K.

GUPTA. Collection of Virendra Gupta, Located at the American Entomological Institute, 3005 S. W. 56th Avenue, Gainesville, Florida 32608, U.S.A.

HONOLULU. Bernice P. Bishop Museum, Department of Entomology, Honolulu, Hawaii 96819, U.S.A.

LEIDEN. Rijksmuseum van Natuurlijke Historie, Postbus 9517, 2300 RA Leiden, The Netherlands.

LONDON. Department of Entomology, British Museum (Natural History), Cromwell Road, London SW7, 5BD, England.

MUNICH. Zoologische Staatssammlung, Münchhausenstrasse 21, D-8000, München 60, FDR Germany.

OXFORD. Hope Entomological Collections, University Museum, Oxford, OX1 3PW, England.

STOCKHOLM. Naturhistoriska Riksmuseet, Sektionen for Entomologi, 10405 Stockholm, Sweden.

WARSAW. Institut Zoologiczny, Polska Akademia Nauk, ul. Wilcza 64, Warszawa, Poland.

WASHINGTON. U.S. National Museum of Natural History, Smithsonian Institute, Washington, D.C. 20560, U.S.A.

WUFENG. Entomology Collections, Taiwan Agricultural Research.

Other abbreviations are: M = male, F = female, des = description, fig. = figured, syn = synonyms listed.

#### TRIBE: PIMPLINI

##### *Pimplaetus mucronis* (Gupta & Tikar)

*Pimplaetus mucronis*. Gupta & Tikar, 1976. Oriental Ins. Monogr., 1: 67. M, F. key, des. Type: F, Malacca & Perak (BERLIN).

##### *Flavopimpla nigromaculata mangae* Betrem

*Flavopimpla nigromaculata mangae*: Gupta & Tikar, 1976. Oriental Ins. Monogr. 1: 73, F. key, des., fig. Selangor: Kenny Hills.

Type: F., Taiwan (EBERSWALDE), *Exeristes gracilis* Cushman, 1933. Insecta Matsumurana, 8: 36.; F, India (WASHINGTON), *Calliephialtes bimarginatus* Cushman 1937. Indian Forest Rec. (N. S.) Ent. 3: 141.

##### *Camptotypus rugosus* (De Geer)

*Trichiothecus ruficeps* Cameron, 1903. J. Straits Branch Roy. Asiatic Soc., 39: 137. F. des. Type: F, Sarawak: Kuching (LONDON).

*Hemipimpla rugosus*: Morley, 1914. Revision of the Ichneumonidae in the British Museum, 3: 97. M, F. key, syn., des. Perak: Tengar.

*Camptotypus rugosus*: Gupta & Tikar, 1976. Oriental Ins. Monogr., 1: 185, M,

F. key, syn., des., fig. Malacca: Tengah Geh.; N. Sembilan: Seremban; Kedah: Gajah Mati, Gurun, Bukit Bintang; Selangor: Bukit Kutu—900 m.

#### *Zaglyptus Indicus nigrithorax* Gupta

*Zaglyptus indicus nigrithorax* Gupta, 1961. Indian J. Ent., 22: 250. F. key, des. Type: F, Pahang: Lubok Tamang, 3500 ft. (WASHINGTON).

#### *Echthromorpha agrestoria notulatoria* (Fab.)

*Echthromorpha maculipes* Cameron, 1905. J. Straits Branch Roy. Asiatic Soc., 44: 121. [F]. des. Lectotype (designated by Townes, Townes & Gupta 1961): F, Sarawak: Kuching (LONDON). Syn. With laeva by Morley 1913.

*Echthromorpha notulatoria*: Beeson & Chatterjee, 1935. Indian Forest Rec. (N.S.) Ent., 1: 159. Biol. Malay Peninsular. Host: *Hyblaea puera*.

*Echthromorpha agrestoria notulatoria*: Townes, Townes & Gupta, 1961. Mem. Amer. Ent. Inst., 1: 39. Lectotype design., syn. Malaya.

#### *Xanthopimpla alternans* Krieger

*Xanthopimpla alternans*: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14; 170. M, F. key, syn., des., fig. Kuala Lumpur; Penang I: Sungai Siru, Tanjung Bungah.

Type: *Xanthopimpla alternans* Kriger, F. Taiwan, Chiai (BERLIN); *Xanthopimpla genualata* Krieger, Indonesia: West Sumatera (BERLIN).

#### *Xanthopimpla clivulus clivulus* Townes & Chiu

*Xanthopimpla clivulus clivulus*: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 161. F. key, des., Fig. N. Sembilan: Kuala Klawang, Kampai.

Type: F, Indonesia (GAINESVILLE).

#### *Xanthopimpla curvimaculata pendleburyi* Townes & Chiu

*Xanthopimpla curvimaculata pendleburyi*: Townes & Chiu, 1970. Mem. Amer. Ent. Inst. 14: 264. key, des., Type: F, Selangor: Kuala Lumpur.

#### *Xanthopimpla decurtata detruncata* Krieger

*Xanthopimpla decurtata detruncata*: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 143. M, F. n. status, key, des., fig. Pahang (4200 ft); Penang I.

Type: *Xanthopimpla detruncata*: Krieger, 1914. Arch. F. Naturgesch., (A) 80 (6); 39, 115. F, Taiwan (BERLIN).

#### *Xanthopimpla ecaudata* Krieger

*Xanthopimpla hispida*: Krieger, 1914. Arch. F. Naturgesch., (A) 80 (6): 24. Key; (A) 80 (7): 130. F. des., fig. Perak.

*Xanthopimpla hispida*: Townes, Townes & Gupta, 1961. Mem. Amer. Ent. Insts., 1: 56. Malaya.

*Xanthopimpla hispida*: Krieger, 1899. Sitzber. Naturf. Gesell. Leipzig, 1897/98: 70. F. key des., Type: F, Perak (BERLIN). Syn. By Townes & Chiu 1970.

#### *Xanthopimpla enderleini* Krieger

*Xanthopimpla enderleini*: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 118. M, F. Lectotype design., key, syn., des., fig. Selangor: Ulu Langat.

Type: *Xanthopimpla enderleini*: Krieger, 1914. Arch. F. Naturgesch., (A) 80 (6): 35. Indonesia: Sumatera (WARSAW).

#### *Xanthopimpla exigua exigua* Krieger

*Xanthopimpla exigua exigua*: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 203. M, F. n. status, key, syn., des., fig. Selangor: Ulu Langat, 300–390 m.

*Xanthopimpla exigua*: Krieger, 1914. Arch. F. Naturgesch., (A) 80 (6): 41, 100. M. key, des., fig. Type: M, Sarawak: Lundu (BERLIN).

#### *Xanthopimpla flavolineata* Cameron

*Xanthopimpla flavolineata*: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 114. M, F. key, syn., des., fig. Malaya.

*Xanthopimpla emaculata*: Kusigemati, 1985. Mem. Kagoshima univ. res. Center S. Pacific, 5: 127. M, F. Pahang: Cameron Highland.

Type: *Xanthopimpla flavolineata*: Cameron, 1907. Tijdschr. V. Ent., 50; 48. F. key, des. Indonesia: West Irian (AMSTERDAM).

#### *Xanthopimpla gampsura* Krieger

*Xanthopimpla gampsura*: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 56. M, F. key, des., fig. Selangor: Beting; Kuala Lumpur; Teluk Merbau: Penang: Ginting.

Type: *Xanthopimpla gampsura*: Krieger, 1914. Arch. F. Naturgesch., (A) 80 (6): 44. Indonesia (BERLIN).

#### *Xanthopimpla glaberrima* Roman

*Xanthopimpla glaberrima*: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 183. M, F. key, syn., des., fig. Penang I.

Type: *Xanthopimpla glaberrina*: Roman, 1913. Arkiv for Zool., 8 (15): 22. Philippines (STOCKHOLM); *Xanthopimpla sauteri*: Krieger, 1914. Arch. F. Naturgesch., (A) 80 (6): 31. Lectotype (designated by Townes, Townes & Gupta 1961), Taiwan (BERLIN).

#### *Xanthopimpla incompleta* Krieger

*Xanthopimpla incompleta*: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 269. F. key, des., fig. Selangor: Kuala Lumpur (WASHINGTON).

Type: *Xanthopimpla incompleta*: Krieger, 1914. Arch. F. Naturgesch., (A) 80 (6): 23. Key; (A) 80 (7): 145. F. des. Indonesia (STOCKHOLM).

#### *Xanthopimpla jacobsoni jacobsoni* Krieger

*Xanthopimpla jacobsoni jacobsoni*: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 172. M, F. n. status, key, syn., des., fig. Kuala Lumpur; Penang I.; Perak: Teluk Anson.

Type: *Xanthopimpla jacobsoni*: Krieger, 1914. Arch. F. Naturgesch., (A) 80 (6): 32. Indonesia: Semarang (BUDAPEST). Host: *Eulemma versicolor*.

#### *Xanthopimpla konowi* Krieger

*Xanthopimpla konowi*: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 48. M, F. key, syn., des., fig. Malaya. Host: *Attacus dohertyi*, *Saturnia pyretorum* and other Saturnidae.

Type: *Xanthopimpla konowi*: Krieger, 1899. Sitzber. Naturf. Gesell. Leipzig, 1897/98: 87. F. key, des., fig. Japan (BERLIN); *Xanthopimpla watsoni*: Cameron, 1911. Soc. Ent., 26: 46. M. key, des. Type: M, India: Bengal (LONDON).

#### *Xanthopimpla laticeps liturata* Townes & Chiu

*Xanthopimpla laticeps liturata*: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 181. F. key, des., fig. Type: F, Penang I. (WASHINGTON).

Townes & Chiu 1970. Mem. Amer. Ent. Inst., 14: 372 pp.

Townes, Townes & Gupta 1961. Mem. Amer. Ent. Inst., 1: 532 pp.

*Xanthopimpla modesta modesta* (Smith) (Gupta 1987); *Xanthopimpla modesta* (Smith) (Yu & Horstmann 1997).

*Xanthopimpla modesta modesta*: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 106. M, F. n. status, key, Syn., des., fig. Selangor: Kepong.

*Xanthopimpla latealteata*: Cameron, 1903. J. Straits Branch Roy. Asiatic Soc., 39:137. M. des. Lectotype (designated by Townes, Townes & Gupta 1961): F, Sarawak: Kuching (LONDON). Syn. By Townes & Chiu 1970.

#### *Xanthopimpla naenia* Morley

*Xanthopimpla naenia*: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 268. M, F. key, syn., des., fig. Kuala Lumpur.

Type: *Xanthopimpla naenia*: Morley, 1913. Fauna of British India, Hymenoptera, 3: 115. F. key. des., India (OXFORD).

#### *Xanthopimpla pedator* (Fab.)

*Xanthopimpla pedator*: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 39. M, F. key, syn., des., fig. Penang I.

Type: *Ichneumon pedator* Fab., 1775. Systema Entomologiae, p. 828. F. des. India (GLASGOW).

#### *Xanthopimpla pulvinaris* Townes & Chiu

*Xanthopimpla pulvinaris*: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 271. M, F. key, des., fig. Kuala Lumpur.

Type: F, Taiwan (WUFENG).

#### *Xanthopimpla punctata* (Fab.)

*Xanthopimpla punctata*: Momoi, 1966. Mushi, 40: 4. M, F. Malaya

*Xanthopimpla punctata*: Kusigemati, 1985. Mem Kagoshima Univ. Res. Center S. Pacific, 5: 127. M, F. des., Perak.

Type: *Xanthopimpla lissonota*: Cameron, 1906. J. Straits Branch Roy. Asiatic Soc., 46: 115. F. des., F. Sarawak: Kuching (LONDON). Syn. By Townes, Townes & Gupta 1961.

#### *Xanthopimpla regina* Morley

*Xanthopimpla regina*: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 43. M, F. key, des., fig. Kuala Lumpur.

Type: *Xanthopimpla regina*: Morley, 1913. Fauna of British India, Hymenoptera, 3: 118. M, F. key, des. Bangladesh: Sylhet (LONDON).

*Xanthopimpla walshae walshae* Townes & Chiu

*Xanthopimpla walshae walshae*: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 191. F. key, des., fig.). Pahang: Fraser's Hill, 400 ft.

Type: F, Indonesia: Java (GAINESVILLE).

#### TRIBE: THERONIINI

*Theronia clathrata malayensis* Gupta: Yu & Horstmann (1997) put it under Pimplini

*Theronia (Theronia) clathrata malayensis*: Gupta, 1962. Pacific Ins. Monogr., 4: 50. F. key, des., Type: F, Pahang: Fraser's Hill, 1300 m (LONDON).

*Theronia nigrivertex* Gupta (in Gupta, 1987); Yu & Horstmann (1997) put it under Pimplini

*Theronia (Theronia) nigrivertex*: Gupta, 1962. Pacific Ins. Monogr., 4: 45. F. key, des. Type: F, Perak: Jor Camp, 550 m, Batang Padang (WASHINGTON). Pahang: Cameron Highlands, Terbukui, 1200 m.

*Theronia pseudozebra pseudozebra* Gupta

*Theronia (Theronia) pseudozebra pseudozebra*: Gupta, 1962. Pacific Ins. Monogr., 4: 21. M, F. key. des., Pahang: Fraser's Hills, 1300 m, Kedah: Kedah Pek, 1200 m. Penang I.

Type: F, Sabah: Sandakan (WASHINGTON).

*Theronia zebra zebra* (Vollenhoven)

*Theronia (Theronia) zebra zebra*: Gupta, 1961. Pasific Ins. Monogr., 4: 16. M, F. n. status, key, des., fig. Kuala Lumpur.

Type: *Pimpla zebra*: Vollenhoven, 1879. Stetiner Ent. Ztg., 40: 147. F, des. Indonesia (LEIDEN).

*Nomosphecia pyramida pyramida* (Gupta) (in Gupta 1987): *Neotheronia pyramida* Gupta (Tribe: Pimplini) (in Yu & Horstmann 1997)

*Theronia (Nomosphecia) pyramida pyramida*: Gupta, 1962. Pacific Ins. Monogr., 4: 80. M. key, des.

Type: M, Kedah: Kedah Peak, 1200 m. (GUPTA). Momoi 1968. Kontyu, 36(2); 182–185; Gupta, 1987. Mem. Amer. Ent. Inst., 41 (Part 2). Pp 598–1210.

*Nomosphecia zebroides zebroides* (Krieger)

*Theronia (Nomosphecia) zebroides zebroides*: Gupta, 1962. Pacific Ins. Monogr., 4: 71. F. n. comb., key, des. Penang I' Water Fall garden Host: *Eumenes arcuata*.

Type: *Theronia zebroides*: Krieger, 1906. Ztschr. Syste. Hymen. Dipt., 6: 236. F. des. In key. Type: F, Indonesia: Sumatera (BERLIN).

*Epitheronia tomeus* (Gupta)

*Theronia (Epitheronia) tomeus*: Gupta, 1962. Pacific Ins. Monogr., 4: 96. M, F. key, des. Kedah: Langkawi I. Type: F, Indonesia (LEIDEN).

TRIBE: NEOXORIDINI = POEMENIINI

*Eugata nigrita* Gupta

*Eugalta nigrita*: Gupta, 1980. Oriental Ins., 14: 106. M, F key, des., fig. Type: F, Perak (MUNICH), Selangor: Bukit Kutu, 3500 ft.

*Eugalta santoshale* Gupta

*Eugata santoshae*: Gupta, 1980. Oriental Ins., 14: 99. F. key, des. Selangor: Bukit Kutu, 3500 ft. Type: F, Indonesia (GAINESVILLE).

*Achorocephalus nigricollis malayanus* (Gupta)

*Pseudeugalta nigcollis malayanus*: Gupta, 1980. Oriental Ins., 14: 120. M. key, des. Type: M, Perak: Larut Hills, 3700–4000 ft (GUPTA).

*Achorocephalus nigricollis malayanus*: Gupta, 1985. Oriental Ins., 19: 324. N. comb.

TRIBE: RHYSSINI

*Lytarmes maculipeunis maculipennis* (Smith)

*Megarhyssa variegata*: Mocsary, 1905. Ann. Mus. Natl. Hungarici, 3: 2. M. des. Lectotype: Perak (BUDAPEST). Syn. By Kamath & Gupta 1972.

*Lytarmes maculipennis variegatus*: Townes, Townes & Gupta, 1961. Mem. Amer. Ent. Inst., 1: 84. Lectotype design., n. comb., syn. Malaya.

*Lytarmes maculipennis maculipennis*: Kamath & Gupta, 1972. Oriental Ins. Monogr., 2: 23. M, F. key, syn., des., fig. Perak; Penang I; Penang Hills, Air Hitam, 300 m; Selangor: Ampang Reservoir; Malacca, Mt. Tengah.

Type: *Rgyssa varilineata*: Cameron, 1907. Ann. & Mag. Nat. Hist., (7) 20; 15. F. des. Sarawak: Kuching (LONDON). Syn. By Gupta & Kamath 1972.

*Sychnostigma binarium binarium* Kamath & Gupta

*Sychnostigma binarium binarium*: Kamath & Gupta, 1972. Oriental Ins. Monogr., 2: 135. F. key, des. Type; F, Pahang: Mt. Tahan, 800–1200 m (LONDON).

*Sychnostigma flavopictum flavopictum* (Smith)

*Epirhyssa flavopicta*: Morley, 1913. Revision of the Ichneumonidae in the British Museum, 2; 6. F. key, syn. (in part), des. Penang I; Pahang: Mt Thaun, 2500–3500 ft.

*Epirhyssa flavopicta*: Morley, 1914. Ann. & Mag. Nat. Hist. (8) 14: 409. Malaysia (in part).

*Sychnostigma flavopictum*: Townes, Townes & Gupta, 1961. Mem. Amer. Ent. Inst., 1: 87. N. comb. Penang I.

*Epirhyssa curvimaculata*: Cameron, 1907. Ann. & Mag. Nat. Hist., (7) 20; 16. F. des. Lectotype (designated by Kamath & Gupta 1971), F, Sarawak: Kuching (LONDON).

*Sychnostigma malayanum* Kamath & Gupta

*Epirhyssa flavobalteata*: Morley, 1913. Revision of the Ichneumonidae in the British Museum, 2: 7, (in part). F, Perak: Maxwell's Hill.

*Epirhyssa flavobalteata*: Morley, 1913. Fauna of British India, Hymenoptera, 3: 88 (in part).

*Sychnostigma malayanum*: Kamath & Gupta, 1972. Oriental Ins. Monogr., 2: 173. F. key, des., fig. Perak: Maxwell's Hill.

Type: Pahang: Cameron Highlands, 1500–1600 m (LONDON).

*Sychnostigma nigrobalteatum* (Cameron)

*Sychnostigma nigrobalteatum*: Kamath & Gupta, 1972. Oriental Ins. Monogr., 2: 190. F. key, syn., des. Kedah: Kedah Peak, 1100 m.

*Epirhyssa nigrobalteata*: Cameron, 1903. J. Straits Branch Roy. Asiatic Soc., 39; 134. F, des. Lectotype (designated by Townes, Townes & Gupta 1961): F, Sarawak: Kuching (LONDON).

*Myllenyxis javensis* Kamath & Gupta

*Myllenyxis javensis*: Kamath & Gupta, 1972. Oriental Ins. Monogr., 2: 212. M. key, des., fig. Selangor: Kuala Lumpur.

Type: M, Java (GAINESVILLE).

*Myllenyxis muelleri* (Vollenhoven)

*Myllenyxis muelleri*: Kamath & Gupta, 1972. Oriental Ins. Monogr., 2: 207. F. key, syn., des., fig. Perak.

*Epirhyssa nigerrima*: Morley, 1913. Revision of the Ichneumonidae in the British Museum, 2: 6. F. key, des. Type: F, Sarawak (LONDON). Syn. By Kamath & Gupta 1972.

#### ACKNOWLEDGMENT

I would like to express thank you to Associate Professor Mohamed Salleh Mohamedsaid for encouragement in publishing this catalogue. This work was supported by Malaysian Government Research Grant IRPA No. 09-02-02-022.

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Received 28 Mar 1998; Accepted 11 Nov 1998.